

**Part II to January 1979 SMPTE Journal**

# **SMPTE Journal**

## **Index to Volume 87 January — December 1978**

Listed on the following six pages are papers and major reports from the twelve issues. See the Volume Index for items which generally appear in the latter part of each issue: Society announcements (awards, reports, conferences, engineering activities, membership, elections, sections activities, etc.); biographical notes; book reviews; notices of books, booklets and brochures; abstracts from other journals; industry news and educational activities; new products; and obituaries.

Current SMPTE-sponsored American National Standards, Society Recommended Practices, and Engineering Committee Recommendations are indexed separately on pages **I-19-I-21**. The standards, recommendations, and recommended practices published in Vol. 87, 1978 are indexed by number on pages **I-17-I-18**.

**SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS**

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SMPTE Recommended Practice, RP 79-1977, Specifications for Flutter Test Film for 35mm 4-Track Release Print Sound Reproducers, Magnetic Type, 393, 394, June

SMPTE Recommended Practice, RP 80-1977, Specifications for Azimuth Test Film for 35mm 4-Track Release Print Sound Reproducers, Magnetic Type, 393-394, June

SMPTE Recommended Practice, Proposed, RP 82, Specifications for 16mm Projector Alignment and Screen Image Quality Test Film, 332, 336-338, May

#### Video Newsfilm

Flashing, Eastman Ektachrome video news film for intercutting with Eastman Ektachrome commercial film 7252, *Doody, Lawton and Perry*, 373-375, June

#### FILM-TO-TAPE TRANSFER

Motion pictures on videotape, direct assembly, two methods, *Spies*, 451-455, July

#### FORTHCOMING PROFESSIONAL MEETINGS

Acoustical Society of America, 95th annual meeting, 184, Mar., 96th annual meeting, 401, June  
Alpha Epsilon Rho, annual convention, 712, Oct.  
American Film Institute Film/TV Documentation Workshop, 401, June  
—, symposium for film educators, 468, July  
American Management Association, course in Engineering Management, 468, July  
Camera Mart Video Seminar, 184, Mar.  
Conference on Television Measurement, Commonwealth Institute, London, 527, Aug.  
Cranfield Institute of Technology International Conference, 527, Aug.  
Electronics Conference and National Communications Forum, 712, Oct.  
Euro Comm 78, 104, Feb.  
Robert Flaherty Film Seminar, 250, Apr.  
Graphic Communications Institute, two conferences, 622, Sept.  
IBC 78, International Broadcasting Convention, 622, Sept.  
Institution of Electronic and Radio Engineers, London, International Conference on Video and Data Recording, 527, Aug.  
International Industrial Television Association, annual conference, 54, Jan.  
International Scientific Week, Austria, 184, Mar.  
Inter-Society Color Council, Judd Memorial Conference on Color Metrics, 527, Aug.  
NAEB Convention, 712, Oct.  
National Audio-Visual Association Convention 1979, 468, July; 712, Oct.  
New York Cable Television Technical 4th Annual Technical Seminar, 104, Feb.  
Optical Science and Engineering, short course, 712, Oct.  
Optical Society of America, annual meeting, 401, June  
Photokina, 54, Jan.  
Professional Motion Picture Equipment Association, annual symposium, 250, Apr.  
Sci/Com 78, American Science Film Association Symposium, 622, Sept.; 712, Oct.  
SMPTE Chicago Section All-Day Tutorial Session, 104, Feb.  
SMPTE Chicago Section Midwinter Symposium/Chairman's Reception, 712, Oct.  
Society of Photographic Scientists and Engineers, International Congress of Photographic Science, 401, June  
—, International Symposium on Advances in Polymer Systems, 401, June  
—, Seminar on Chemical and Effluent Management in Photographic Laboratories, 468, July  
—, Symposium on Optical Data, 780, Nov.  
Society of Photo-Optical Instrumentation Engineers, 22nd International Symposium, 250, Apr.  
SPIE Technical Symposium East, 104, Feb.  
13th International Congress on High-Speed Photography and Photonics, 250, Apr.  
13th UNIATEC Congress, 401, June  
Toronto Super-8 Film Festival, 54, Jan.  
USC-Universal Studios 12th Annual Summer Cinema Program, 401, June  
USC extension, Course on Detection of Infrared Radiation, 468, July  
Video Programming Workshop, 622, Sept.  
World Film Festival, Montreal, 250, Apr.

#### GENERAL

New Copyright Law, 596, Sept.

#### HOLOGRAPHY

Digital data, use of to generate video backgrounds, *Leonard*, 499-504, Aug.  
Holographic process for color motion-picture preservation, *Ih*, 832-834, Dec.

#### INDUSTRY NEWS & EDUCATIONAL ACTIVITIES

##### BUSINESS AND INDUSTRIAL

ADDA Corp. appoints Wiltronix, Inc., representative, 542, Aug.  
A&G Concepts acquired by Vidtronics, 261, Apr.  
Agfa-Gevaert, new marketing, training, demonstration center, 542, Aug.  
Amplex Corp. acquires Duca-Richardson Corp., 542, Aug.  
—, expands Opelika, Ala., magnetic tape manufacturing facility, 261, Apr.  
—, N. V. Philips cooperation in 1-in helical recorders and ENG/EFP cameras, 408, June  
Arriflex Company of America acquired by Arriflex Corp., 408, June  
Aston Electronic Developments Ltd., England, Unitel, France, agreement, joint, development dual standard Teletext equipment, 408, June  
Auscom Associates, new audio-video systems engineering firm, 408, June  
Bell & Howell, Memorex Corp., joint venture, 718, Oct.  
Capron Lighting and Sound, new office, 261, Apr.  
Chrysler Corp., Video Marketing Communications network, 542, Aug.  
Chyron Corp. appoints Television Equipment Associates dealer, 646, Sept.  
—, forms Video Products Div., 118, Feb.  
Cine/Com Services Inc., new corporation, 339, May  
Cinema Products, Garrett Brown, Academy Award for Steadicam, 339, May  
dbx, Inc., two appointments, 478, July  
DeLuxe General, program to license "Color by DeLuxe," 174, Mar.  
Dytek Industries acquires Vamco Engineering, 408, June  
Eastman Kodak Co., Ektachrome video news films, alternate processing method, 646, Sept.  
—, new appointments, 784, Nov.  
—, new marketing, distribution center, 716, Oct.  
Fuji Photo Film U.S.A. expands Dallas Regional Distribution Center, 64, Jan.  
—, price increase on videotape products, 784, Nov.  
Dick Girvin Productions, Inc., acquires Sonart DB Studios, 783, Nov.  
Alan Gordon Enterprises sold to three of the company's executives, 116, Feb.  
GTE Sylvania, Electronic Components Group develops Integral Surge Limiter, 64, Jan.  
—, television sets of the future, 542, Aug.  
Gulton Industries acquires Technical Audio Products Corp., 783, Nov.  
Image Transform, Inc., Mach One editing system, 846, Dec.  
—, Service Center established in Korea, 720, Oct.  
—, World Cup Soccer transferred to film, 783, Nov.  
Infonics, film cataloging service, 540, Aug.  
Innovative Television Equipment, relocated, larger facilities, 410, June  
Leader Instrument Corp. expands West Coast facilities, 116, Feb.  
Magnasync/Moviola Corp. realign film editing and studio recording marketing department, 783, Nov.  
Marconi Communication Systems Ltd., appointed distributor for Orrox Corp.'s CMX videotape editing systems, 116, Feb.  
Marconi Instruments Ltd., television monitoring equipment, Moscow, 1980 Olympic Games, 260, Apr.

MCA DiscoVision, new plant, 339, May  
Media Equipment Center, Memphis, purchased by William M. O'Rork, 478, July  
Memorex Corp., new service, 542, Aug.  
Metro-Goldwyn-Mayer, new building, 646, Sept.  
Modern Talking Picture Service forms Modern Cinema 35, 783, Nov.  
—, joint venture with Modern Telecommunications, 118, Feb.  
New Jersey, growing motion-picture industry, 716, Oct.  
NYC TV station to move to World Trade Center, 626, Sept.  
Orrox and Vidtronics agreement to jointly manufacture and market Videola, 478, July  
Philips Audio Video Systems Corp., opens new West Coast office, 261, Apr.  
PRC of America acquires General Rayfin of New York, 542, Aug.  
Pro-Bel Ltd., new firm, 64, Jan.  
QSI Systems, Inc., Q-Code, new time code, 64, Jan.  
RCA American Communications, Inc., and Fanfare Television Group, agreement, 646, Sept.  
—, plans to shift cable TV traffic to RCA Satcom I satellite, 261, Apr.  
—, satellite networking services, 783, Nov.  
RCA Broadcast Systems to market Sony Corp.'s 1-in helical-scan videotape recorders, 118, Feb.  
RCA Global Communications to donate undeveloped land, 846, Dec.  
RCA's top technical honors to 16 scientists and engineers, 650, Sept.  
SEE/EIR, France, installs Datatron Tempo Editing System at Paris facility, 542, Aug.  
Sony Broadcast B.V., Netherlands, subsidiary, 176, Mar.  
Sony Corp. of America, parts center, Kansas City, Mo., 544, Aug.  
—, telephone Hot Line, 718, Oct.  
—, three new marketing companies, 339, May  
Sylvania CATV Equipment & Installation Operation, new headquarters, 542, Aug.  
Technicolor S.p.A. in Rome reduces staff, 718, Oct.  
TelCon, new offices, 783, Nov.  
Teletronics International changes name to Video Corp. of America, 261, Apr.  
Teletronics, new service, 718, Oct.  
Thorn Lighting Inc., appoints Capron Lighting Co. distributor, 784, Nov.  
TV-R, Inc., post-production facility, larger quarters, 783, Nov.  
UA-Columbia Cablevision, Inc. increases satellite TV services from RCA American Communications, 540, Aug.  
Variable Speech Control Co., speech compressor/expander, distribution in Japan, 260, Apr.  
Video Automation Systems Inc. completes video system for New York State Assembly, 540, Aug.  
Videocopy, new company, 261, Apr.  
Video Corp. of American plans phase-out of Video City operations in North Miami, Fla., 718, Oct.  
Video Craftsmen, new firm, 261, Apr.  
Video One, Inc., offers portable 1-in television production services, 478, July  
Yoder, Gordon, closes film equipment sales and rental business in Dallas, 478, July

EDUCATIONAL ACTIVITIES — including film festivals, etc.

Eastman Kodak Co. wins Business in the Arts Award, 716, Oct.  
Genesis Systems, Inc., microprocessors, seminars, courses on videotape, 260, Apr.  
Harrow College of Technology and Art, England, course on Applied Photography Film and Television, 474, July  
Institute for Visual Communications, Ohio University, academic program, 644, Sept.  
Lewin, Frank, *Variations of Greek Themes*, world premiere, 116, Feb.  
Frank M. McGahey Memorial Scholarship, 716, Oct.  
MGM film library housed in new building, 174, Mar.

Museum of Modern Art, national student cinema competition, 259, Apr.  
Nebraska Center for Continuing Education, Symposium on Research and Utilization of Educational Materials for Teaching the Deaf, 474, July  
New York University, seminar, Effective Communication for Engineers, 538, Aug.  
O'Connor Engineering Labs recalls Model 30 fluid camera heads, 474, July  
SMPTE Scholarship awards, 644, Sept.  
Sony Corp. of America, Video Production Workshops, 406, June  
Synergetic Audio Concepts, graduate symposium, 646, Sept.  
Television Studio School of New York, new quarters, 716, Oct.  
UCLA, course in Geometric Optics, 478, July  
USC, intensive course on work of National Film Board of Canada, 408, June  
—, National Ad Hoc Forum, Film, Video Schools, 783, Nov.  
—, scholarship fund, 716, Oct.

## PEOPLE

August Arnold celebrates 80th birthday, 846, Dec.  
Baker, Blaine, elected President of Motion Picture Laboratories following death of Frank M. McGeary, 544, Aug.  
Baptista, John L., appointment, 725, Oct.  
Berg, Wolfgang, honorary member SPSE, 646, Sept.  
Berry, Garrett R., appointment, 784, Nov.  
Brewer, Eddie G. A., appointment, 650, Sept.  
Brill, Gerow, appointment, 650, Sept.  
Brown, Garrett, Ben Easy Technical Award, 339, May  
Cadzow, Chris, appointment, 544, Aug.  
Calaway, Jack, appointment, 410, June  
Caluger, Wayne, appointment, 176, Mar.  
Caput, Lee J., appointment, 720, Oct.  
Castrignano, Robert A., appointment, 783, Nov.  
Cherry, Professor Colin, Imperial College of Science and Technology, London, recipient Fourth Marconi International Fellowship, 472, July  
Chiu, Donald, wins Ampex's Alexander M. Pontiatoff Award, 720, Oct.  
Comandini, Pete, appointment, 64, Jan.  
Dale, John, appointment, 410, June  
Davis, Donald and Carolyn, receive Achievement Award, Upper Midwest Acoustical Society of America, 784, Nov.  
Davis, Sterling E., appointment, 410, June  
Dickenson, William A., EIA Engineering Award of Excellence, 339, May  
Dunn, Linwood, new President, American Society of Cinematographers, 339, May  
Ebbets, Rex, President, BKSTS, 544, Aug.  
Edney, Brian, appointment, 725, Oct.  
Elle, Bruce L., appointment, 478, July  
Fink, William A., appointment, 846, Dec.  
Goldberg, Abraham A., 783, Nov.  
Guisinger, Barrett E., appointment, 410, June  
Hanson, Wesley T., 1977 Cultural Prize of the German Photographic Society, 64, Jan.  
Holder, Carl L., appointment, 176, Mar.  
Humphrey, John H., appointment, 650, Sept.  
Jaeger, Paul, teaching in NYU School of Film and Television, 846, Dec.  
Jamison, Walter C., appointment, 176, Mar.  
Saul Jefree, special award, 646, Sept.  
Kaiser, Arthur, appointment, 783, Nov.  
Karr, Larry, appointment, 720, Oct.  
Kay, Melvin, appointment, 339, May  
Korodi, Milos B., appointment, 650, Sept.  
Kramer, Joseph H., appointment, 650, Sept.  
LaBate, Nicholas J., appointment, 718, Oct.  
LaZare, Howard, appointment, 725, Oct.  
Lemoine, Maurice, wins Ampex's Alexander M. Pontiatoff Award, 720, Oct.  
Lind, Anthony H., appointment, 720, Oct.  
Lippman, David M., appointment, 650, Sept.  
Lloyd, Hilary, appointment, USC, 478, July  
Lundy, Roger, appointment, 64, Jan.  
Luther, Arch C., appointment, 718, Oct.  
Maguire, Edward B., appointment, 410, June  
Mason, Kenneth M., guest speaker, Rochester Institute of Technology, 339, May  
Melchionni, Bruno F., appointment, 650, Sept.

Miller, Francis W., appointment, 176, Mar.  
Moore, J. Kenneth, appointment, 720, Oct.  
Muttitt, William A., appointment, 650, Sept.  
Orr, William H., named Chairman of the Board of Orrox Corp., 784, Nov.  
Pincu, Thomas L., appointment, 544, Aug.  
Plummer, Robert H., appointment, 176, Mar.  
Press, Frank, guest speaker, Washington Group National Association of Science Writers, 538, Aug.  
Roth, Wilhelm, made honorary member of Fernseh- und Kinotechnische Gesellschaft, 176, Mar.  
Scooby, Fred, named President, DeLuxe Laboratories, 410, June  
Sirinsky, Richard, appointment, 339, May  
Smith, Robert R., appointment, 720, Oct.  
SMPTE Executive Director to retire, 716, Oct.; 783, Nov.  
Spruill, Dudley, Executive Secretary, Association of Cinema & Video Laboratories, 339, May  
Stern, David M., appointment, 725, Oct.  
Stone, Burton, named President, DeLuxe General, Inc., 410, June  
Trottner, C. Ray, retires from Eastman Kodak Co., 784, Nov.  
Vandervort, DeVere L., appointment, 650, Sept.  
Wicinski, Edward T., appointment, 725, Oct.  
Wortman, Leon A., appointment, 720, Oct.  
Irwin Young, Chairman, Robert M. Smith, Executive Vice-President, Du Art Film Laboratories, recipients of Certificate of Commendation, Local 644, International Photographers of the Motion Picture Industry, 544, Aug.

## PROFESSIONAL AND SCIENTIFIC ORGANIZATIONS — including conferences, awards, etc.

Aeroballistic Range Association, 406, June  
American Film Institute/Arts Endowment Film Archival Program, grants, 538, Aug.  
American Soc. of Cinematography honors Thomas E. Tutwiler and Sidney Hickox, 339, May  
American Society of Cinematographers honors three long-term members, 544, Aug.  
American Society of Safety Engineers criticizes Barlow Decision of U.S. Supreme Court, 538, Aug.  
Association for Multi-Image, establishes Archives and Clearinghouse, 846, Dec.  
AV Practice 78, DIB convention, 339, May  
BKSTS Fellows Awards, 472, July  
California Institute of Research Foundation grants Syn-Aud-Com license to practice time-delay spectrometry, 538, Aug.  
Canadian Film and Television Association elects new officers, 339, May  
—, new policies, programs, 716, Oct.  
CINE announces two award-winning films, 644, Sept.  
—, announces U.S. amateur films prizes, 716, Oct.  
—, awards Golden Eagle Certificates to U.S. filmmakers, 538, Aug.  
—, new officers, 474, July  
Franklin Institute honors 8 scientists, 116, Feb.  
International Telecommunication Union, Rural Telecommunications, seminar in Delhi, 846, Dec.  
—, World Administrative Radio Conference, 1979, 538, Aug.  
National Audio-Visual Association induces U.S. Postal service to machine small film cases, 408, June  
Optical Soc. of America announces award winners, 259, Apr.  
Geoffrey Parr Award to Rank Cintel's Mark 3 telecine, 540, Aug.  
Photokina, 646, Sept.  
Max Planck Institute, Laser Research Group, 62, Jan.  
Professional Motion Picture Equipment Assn., establishes central headquarters, 260, Apr.  
Eduard Rhein prize, nominations, 474, July  
Royal Television Society News Awards Committee, extends award competition, 846, Dec.  
SMPTE Student Chapter Activities, 174, Mar.  
SMPTE/SPSE Student Chapter, RIT, begins academic year, 644, Sept.

## PUBLICATIONS: FILMS

Broadcast Communications, new professional magazine, 784, Nov.  
Hope Reports Quarterly, analysis of export, import audiovisual products, 174, Mar.  
Hope Reports, study, CCTV for surveillance, 62, Jan.  
International Resource Development, Inc., report, Integrated Video Terminal, 783, Nov.  
International Television Association, Annual Salary Survey, 716, Oct.  
Iowa State University, American Archives of Facial Film, 62, Jan.  
National Film Board of Canada, official film, Commonwealth Games, 62, Jan.  
A. C. Nielsen's Television Audience 1977 annual report, 478, July  
Oscar's First Fifty Years, motion picture on Academy of Motion Picture Arts and Sciences, 408, June  
Recommendations on Uniform Color Spaces, CIE Publication No. 15, 846, Dec.  
The Engineer at Mid-Career published by IEEE, 846, Dec.

## SCIENTIFIC AND TECHNICAL DEVELOPMENTS

Amperex Electronic Corp., television camera tube, 116, Feb.  
CBS, DISComputer, 259, Apr.  
—, Sports coverage of Super Bowl, Electronic Palette; Action Track, 260, Apr.  
DeLuxe Laboratories, ion-exchange technique, 406, June  
Digital Noise Reduction System (DNR), patent granted J. Kenneth Moore, Arthur Kaiser and William E. Glenn, 118, Feb.  
GTE, research in flat panel displays, 716, Oct.  
Laser and Music Image Concert, Image Transform Inc., 783, Nov.  
Marconi Communications Systems Ltd., develops Marconite, 260, Apr.  
Old motion pictures, preserving color, laser technique, Charles S. Ih, 406, June  
Pace Water Recycling System, 718, Oct.  
Philips and MCA, Inc., development of optical videodisc, 64, Jan.  
Promo, pay-TV scrambling system, 716, Oct.  
RCA American Communications, earth station, 118, Feb.  
RCA Corp. introduces fiber optics data link, 261, Apr.  
Sony Tokyo, small CCD color video camera, 408, June  
ViewData, British Post Office Telecommunications, 118, Feb.

## INTERNATIONAL COMMUNICATION

Audiovisual programs, UN conference on human settlements, Cobley and Graham, 218-221, Apr.

## LABORATORY PRACTICE

### Environmental Protection

Ferricyanide bleach regeneration, simplified electrolytic method for, Kleppe and Nash, 233-235, Apr.  
Waste treatment requirements, bleach system, for color positive, negative film reduces, Dupree, 84-88, Feb.

### General

SMPTE Recommended Practice, Proposed, RP 23, Reinforcement of 70mm positive splices, 838, 841, Dec.

### Printing

ANSI, Draft, PH22.153, Dimensions of Printed Area on 16mm Motion-Picture Film Perforated 8mm Type S (Super 8) (1.4), 598, 599, Sept.  
Color attenuation system for motion-picture printing, Lewis, 688-691, Oct.  
Color print film process, efficiency, improvements, Sys, 436-441, July  
Edge numbering, motion-picture film including polyester, ultraviolet-cured inks, Anderson and Hakanson, 749-752, Nov.

Flashing, Eastman Ektachrome video news film for intercutting with Eastman Ektachrome commercial film 7252, *Doody, Lawton and Perry*, 373-375, June  
ISO 4241-1978 (E), Leaders and Run-Out Trailers for 35mm and 16mm Release Prints — Specifications, 516, 521-522, Aug.

#### Processing

Color print film process, efficiency, improvements, 505, 436-441, July  
High-speed machine for film processing, using a helix-eliminating angle drive system, *Galvin*, 691-693, Oct.

#### LENSES (See OPTICS)

#### LIGHTING

Ad Hoc Group under SMPTE Standards Committee to study lighting-equipment accessories, 771, Nov.  
Compound-reflector framing spotlight, optimizing, *Labrum*, 694-699, Oct.

#### MAGNETIC RECORDING TAPE

ANSI, C98.1-1978, Dimensions of 2-in Video Magnetic Recording Tape, 459, 460, July  
SMPTE Recommended Practice, Proposed, RP 36, Positioning the Headwheel and Adjacent Tape for 2-in Quadruplex Video Magnetic Tape Recorders, 393, 395, June  
SMPTE Recommended Practice, Proposed, RP 89, Dual-Program Audio for 2-in Quadruplex Video Magnetic Tape Recording at 15 and 7.5 in/s, 393, 396, June

#### MICROPROCESSORS

Television transmission systems, automatic, *Zborowski*, 383-385, June  
Videotape editing systems using microprocessors, *Hamalainen*, 379-382, June

#### NEW PRODUCTS AND DEVELOPMENTS

(Arranged by Company; see also listing by Subject below)

Acmade International, automatic film rewind table, Mark III, 809, Nov.  
ADDA Corp., Frame Synchronizer, Model VW-1, 422, June  
Adwar Video Corp., Color Hip Switcher II, 423, June  
—, Titler-Keyer, Model TK-1, 423, June  
Allen Avionics, L-C delay line, 864, Dec.  
—, L-C filters, 552, Aug.  
Allen Products Co., Ultima line of film processors, 481, July  
Altec Corp., audio time delay systems, 367, May  
American Laser Systems, remote control system, Model 748, 852-855, Dec.  
—, television transmission set, 662, Sept.  
Amperex Electronic Corp., new 1-in Plumbicon, 548, Aug.  
Amplex Corp., color broadcast camera, BCC-14, 798, Nov.  
—, digital time-base corrector, TBC-2, 734, Oct.  
—, digital video recording system, 424, June  
—, Duca-Richardson production switcher, PAL version, 862, Dec.  
—, VPR-2 helical videotape recorders, 732, Oct.  
Angenieux Corp. of America, zoom lens, variable prime, 796, Nov.  
Arri Corp., Finder Extender for Arri 16SR, 416, June  
—, 12-V/dc servo zoom drive motor, 742, Oct.  
—, video coupling, video monitoring device for Arriflex 16SR, 416, June  
Atlas Sound, mobile studio boom, SB-100W, 555, Aug.  
—, Porta-Series microphone floor stands, 740, Oct.

Audio Developments International, Dual Channel Automatic Graphic Equalizer, 368, May  
Avitel Electronics Ltd., video distribution amplifier, 864, Dec.  
Barco Electronic, 14-in color monitor, CTVM2 series, 662, Sept.  
Bell & Howell • Mamiya Co., Beaulieu 708 super-8 projector, 484, July  
—, Filmsonic super-8 magnetic sound projectors, 557, Aug.  
—, super-8 camera, low-light, magnetic sound, 554, Aug.  
—, super-8 camera, 2144XL, 553, Aug.  
—, super-8 silent camera, Model 2146XL, 196, Mar.  
—, super-8 silent movie projector, Lumina II, Model QX95, 200, Mar.  
—, two super-8 silent cameras, 2123XL and 2103XL, 196, Mar.  
Berkey Colortron Inc., 4000-W Soflite, 868, Dec.  
Berkey Colortron UK, multipurpose luminaire, 422, June  
Charles Beseler Co., Vu-Graph II overhead projector, 124, Feb.  
Birns & Sawyer, Inc., stopwatch, 669, Sept.  
Bogen Division/Lear Siegler, Inc., TCA-150, Tech-Craft Mixer/Power amplifier, 485, July  
Robert Bosch, television monitors, 190, Mar.  
—, two-camera OB van, 194, Mar.  
Braun North America, Agfachrome super-8 film, 192, Mar.  
Carter Equipment Co., frame-count cueing system, 809, Nov.  
—, printer-control tape-punching system, Model CE-CTPS-4, 809, Nov.  
—, printer-control tape readers, 425, June  
Casio, pocket-size scientific calculators, 426, June  
CCA Electronics Corp., Constellation series audio console, 664, Sept.  
Century Precision Cine/Optics, Tele-Athenar II lenses, 548, Aug.  
Channelmatic, Inc., Teldav 400 video distribution amplifier, 194, Mar.  
Chartwell Electro-Acoustics Ltd., monitor loudspeaker, PM450, 198, Mar.  
Chemtronics Inc., Vibra-Jet, 266, Apr.  
Christie Electric Corp., Projector-Protector film cleaner, 485, July  
Chyron Telesystems, graphics and titling system, 661, Sept.  
—, videocassette cleaner and evaluator, Model U-1, 265, Apr.  
Cinema Products Corp., conversion kit for Steadicam, 263, Apr.  
—, CP-16R, CP-16R/A reflex cameras, new generation, 855-858, Dec.  
—, ENG/EFP camera, MNC-71CP, 190, Mar.  
—, GSMD 16mm mini-camera, 263, Apr.  
—, Steadicam/Arri 35B1 modification package, 263, Apr.  
—, ultra-high speed prime lenses for 16mm, 548, Aug.  
Cohu, Inc., color television camera system, Model 1420, 848, Dec.  
—, Isocon television camera system, low light levels, 800, Nov.  
—, low-light, single-tube color Isocon camera system, 848, Dec.  
—, television camera for unattended operation, 848, Dec.  
—, video cable equalizer, 9800 series, 664, Sept.  
Colorado Video, Inc., compressed video system, 552, Aug.  
—, video expander, Model 275, 660, Sept.  
—, video frame store, Model 274, 806, Nov.  
Comprehensive Video Supply Corp., crimp connector kits, 808, Nov.  
—, shot-gun microphone, SGM-2, 557, Aug.  
—, video cabling accessories, 865, Dec.  
Consolidated Video Systems, digital time-base corrector, CVS-516, 68, Jan.  
—, EPIC editor, 732, Oct.  
—, Image Enhancer/Noise Reducer, 862, Dec.  
Continental Camera Systems, Body Mount, handheld camera stabilization system, 194, Mar.  
—, Nose Cone Camera Position, 416, June  
—, Pitching Lens, relay lens, 196, Mar.  
—, P.O.V. 35 mm Helmet Camera, 192, Mar.  
Continental Specialties Corp., Design Mate-2 waveform function generator, 738, Oct.  
—, digital logic probe, Model LP-1, 864-865, Dec.  
—, 50-500 counter, 664, Sept.  
—, Logic Monitor, model LM-1, 669, Sept.  
—, Max-100 frequency counter, 369, May  
Convergence Corp., AVS-100 Audio Video Switcher, 808, Nov.  
—, CL-100 Cut/Lap Transition Programmer, 660, Sept.  
—, ECS-100 Superstick Editing Control Systems, 482, July  
—, Joystick Editing Control System, 418, June  
—, time-code reader system, TCR-100, 804, Nov.  
—, TT-100 dual digital tape timer, 807, Nov.  
dbx, Inc., add-on tape noise reduction system, 124, Feb.  
Derek, Inc., Electro-Lite silver recovery system, 425, June  
Digital Video Systems, DPS-1 all-digital video processing system, 362, May  
D.O. Industries, Navitar slide projection lenses, 745, Oct.  
—, Navitar zoom lens, 865-866, Dec.  
—, zoom lens for slide projectors, 808, Nov.  
Drexler Technology Corp., laser recording material, 864, Dec.  
Victor Duncan, Inc., Arriflex 16-SR combined with Nagra SNN, 122, Feb.  
Dynair Electronics, Inc., audio and video switch modules, 364, May  
—, color sync generator, Model SY-5990A, 192, Mar.  
Dynasciences, program switcher, model 7400/A, 68, Jan.  
—, routing switchers, 8500 series, 424, June  
—, video distribution amplifiers, 423, June  
—, video enhancer, 802, Nov.  
Eastman Kodak Co., microfilm products, 126, Feb.  
Echo Science Corp., slow-motion machine, SLO/MO-1, 68, Jan.  
Eckel Industries, Inc., Portable An-Eck-Oic Chambers, 484, July  
Edcor, amplifier for driving headphones, AP-10, 665, Sept.  
—, Calrec Sound Field Microphone, 483, July  
—, wireless microphone receiver, ST-3B, 665, Sept.  
—, wireless microphone transmitter/receiver, 123, Feb.  
EECO, MTG 550 series time-code generators, 660, Sept.  
Ehrenreich Photo-Optical Industries, Bolex sound mixing console, 368, May  
—, Bolex 512 super-8 sound camera, 122, Feb.  
—, Bolex 625-XL super-8 silent camera, 196, Mar.  
—, tripod with fluid head, 808, Nov.  
Eico Electronic Instrument Co., multimeters, 668, Sept.  
Eigen Video, Chroma III color signal system for slow-motion disc recorders, 660, Sept.  
—, color disc recorder, Model 15, 66, Jan.  
Electro-Voice, Inc., System C microphone system, 124, Feb.  
Eprad, Inc., Galaxy stereo-optical sound system package, 804, Nov.  
Eumig, super-8 sound projectors, 666, Sept.  
Eventide Clockworks, Inc., microprocessor-controlled remote control card, 555, Aug.  
Farinon Electric, single-channel microwave receiver, 483, July  
Yves Faroudja Inc., YFI comb filter separator, 807, Nov.  
—, YFI record booster, 862, Dec.  
Flann Microwave Instruments Ltd., microwave signal generators, 68, Jan.  
Fotomatic Corp., monocular type light meter, 204, Mar.  
Frezzolini Electronics Inc., battery sequencer, 486, July

- , Frezzi Belt battery pack, Model F 12-77, 554, Aug., 742, Oct.  
 —, Model BC-77 rapid charger for Frezzi-Belt battery packs, 264, Apr.  
**Fuji Photo Film U.S.A.**, Berodox tape, 68, Jan.  
 —, 8mm camera, Fujica P-2, 866, Dec.  
**General Electric**, Multi-Mirror 50-h EJL projector lamp, 669, Sept.  
**Alan Gordon Enterprises**, Director's Viewfinder 10:1 zoom, 416, June  
**Gray Engineering Laboratories**, reader-character unit, Model DR-115, 732, Oct.  
**Grinnell Systems Corp.**, graphic television display, GMR-27, 66, Jan.  
**Hammond Industries, Inc.**, audio frequency response analyzer, RA200&ADSI, 666, Sept.  
 —, two microphones, 740, Oct.  
**Harris Corp.**, audio processor, MSP-100, 665, Sept.  
 —, color television camera, TC-50, 548, Aug.  
 —, CPV circularly polarized television antenna, 734, Oct.  
 —, modular mono/stereo audio console, 420, June  
**Karl Heitz**, Angenieux 15 x 6 to 90mm zoom lenses, 70, Jan.  
 —, Pathé Report electronic cameras, 69, Jan.  
**Hewlett-Packard**, counter-timer, 865, Dec.  
 —, CRT display module, Model 1340A, 483, July  
 —, Delta Time Oscilloscope, Model 1742A, 808, Nov.  
 —, digital multimeter, Model 3466A, 123, Feb.  
 —, handheld calculators, series E, 668, Sept.  
 —, microwave frequency counter, Model 5342A, 265, Apr.  
 —, option H10 to extend frequency range for Model 5342A microwave frequency counter, 664, Sept.  
 —, oscillator, Model 339A distortion measuring set, 200, Mar.  
 —, RF sweeper plug-ins, 265, Apr.  
 —, spectrum analyzer, Model 3582A, 736, Oct.  
**Houston Fearless**, Colormaster film processors, advanced, 798, Nov.  
**Image Devices Inc.**, IDI Data Slate I, 742, Oct.  
**Innovative Television Equipment**, pedestal for studio, ENG cameras, 658, Sept.  
 —, tripod for ENG cameras, 744, Oct.  
**Inovonics, Inc.**, acoustic analyzer, Model 500, 266, Apr.  
**Instrumentation Marketing Corp.**, Photo-Sonics Model 80 automatic film reader, 122, Feb.  
**Ivie Electronics**, handheld audio analysis system, 202, Mar.  
**JVC Industries, Inc.**, electronic video editing recorder, CR-8500LU, 659, Sept.  
 —, Vidstar VHS video home system, 192, Mar.  
**Kalart Victor Corp.**, 16mm projectors, 418, June  
**Key Industries Inc.**, Phasemaster rotary phase converter, 426, June  
**Ken-Lab, Inc.**, Gyro Stabilizer systems, 122, Feb.  
**Kinetronics Corp.**, liquid application film cleaning machine, LC-500, 556, Aug.  
**KLM Associates, Inc.**, electronic counter, 557, Aug.  
 —, Oldeflt electronic counter, 804, Nov.  
 —, Optical Crown system, 804, Nov.  
**La Vezzi Machine Works, Inc.**, VKF (Very Kind to Film) sprockets, 867-868, Dec.  
 —, Posi-Trol positive control sprockets, 742, Oct.  
**Leader Instruments Corp.**, oscilloscope, LBO-507, 265, Apr.  
**Lenco, Inc.**, color bar generator, 860, Dec.  
 —, monochrome video monitors, 862, Dec.  
 —, video noise meter, Model VNM-428, 800, Nov.  
**Listec Television Equipment Corp.**, Telecure Monitor Prompting System, 420, June  
 —, Vinten TriTrack tracking base, 800, Nov.  
**Lowel-Light Mfg., Inc.**, Omni-Light, 554, Aug.  
**LTM Corp. of America**, Reporter Lighting Kit, 554, Aug.  
**Magnasync/Moviola Corp.**, insert recorder/producer, Series 3000, 555, Aug.  
 —, magnetic sound film recorders, reproducers, 800, Nov.  
**Marconi Electronics**, Mark IX color television camera, 656, Sept.  
**Marconi Instruments**, AM/FM signal source, 662, Sept.  
 —, computer interface model SA1142, 420, June  
**Marconi Instruments Ltd.**, spectrum analyzer, 666, Sept.  
**Matsushita Electric**, VISC home videodisc player system, 190, Mar.  
**Matthey Printed Products Ltd.**, Automatic Video Equaliser 2504N, 730, Oct.  
 —, unified noise weighting filter, 424, June  
**Media Concepts**, JVC Vidstar VHS ½-in videocassette system, 552, Aug.  
**Memorex Corp.**, MRX-716 1-in videotape, 659, Sept.  
 —, videocassette, the Q2HD, 424, June  
**Miami Flock Equipment Co.**, projection television kit, Model Q-12, 484, July  
**Microtime, Inc.**, 2020 Plus Total Signal Corrector, 264, Apr.  
**Miller Professional Equipment**, tripod spreader, 658, Sept.  
**MM Editing Systems, Inc.**, Bogen magnetic heads, 200, Mar.  
**Muirhead Inc.**, M-136 electrostatic facsimile receiver, 202, Mar.  
**NEC America**, FS-15 FE device to eliminate expanded blanking, 855, Dec.  
 —, television transmitter, 663, Sept.  
**Neilson-Hordell Ltd.**, animation camera, 858, Dec.  
 —, Moviecam, 796, Nov.  
**Neumade Products Corp.**, Neutaper film splicer, 204, Mar.  
 —, Neuvator II, 16mm film cleaner, 71, Jan.  
**Neve Electronics International Ltd.**, multitrack audio recording consoles, 740, Oct.  
**Oktel Corp.**, broadcast videodisc recorders, 418, June  
**Opamp Labs Inc.**, 10 x 10 matrix, 740, Oct.  
**Optical Radiation Corp.**, C.A.T. (complete automated theater), 367, May  
 —, xenon slide projection system with FM module, 667, Sept.  
**Orrorx Corp.**, Magamite, tip material, 807, Nov.  
**Otari Corp.**, audio recorder, Model MX-5050-B, 740, Oct.  
**P.A.G. Films Ltd.**, Mini-Rack, 16mm magnetic film audio recorder; also High Speed Broadcast 16 recorder/reproducer, 738, Oct.  
**P.A.G. Power Ltd.**, Speedcharge Battery Belts, 742, Oct.  
**Panasonic**, videocassette recorders, Omnivision II line, 855, Dec.  
 —, vidicon camera, WV1000A and Newvicon CCTV cameras, 848-852, Dec.  
**Pelco Industries, Inc.**, AP-2500 Antenna Positioning System, 264, Apr.  
**Peterson Enterprises, Inc.**, frame-count cueing system, 481, July  
 —, illumination probe, 481, July  
 —, motor-driven film loop cabinets, 482, July  
**Philips Audio Video Systems Corp.**, analog tapped audio delay line, 484, July  
 —, Audiotracer, Model 3201, 556, Aug.  
 —, LDK 25 multicore studio, field camera, 728, Oct.  
 —, portable television camera, LDK 15L, 728, Oct.  
 —, 22-kw VHF lowband television transmitter, 736, Oct.  
**N.V. Philips Gloeilampenfabrieken**, television pattern generator, 860, Dec.  
**Photomec**, 2000 series film processors, 798, Nov.  
**Photo Research Div. of Kollmorgen Corp.**, Spectra Photometer/Radiometer, Model 301, 809, Nov.  
**PRC of America**, super-8 1200-ft Plio-Magic plastic reel, 669, Sept.  
 —, two new film leaders, 481, July
- Rank Precision Industries**, Rank Cintel MK III Flying Spot color telecine, 362, May  
**Rank Strand Electric**, Duet packaged memory lighting control system, 867, Dec.  
**RCA Broadcast Systems**, automation accessory for the TCR-100 cartridge recorder, 736, Oct.  
 —, digital video frame synchronizer, TFS-121, 730, Oct.  
 —, TH-100 videotape recorder, 658, Sept.  
 —, time-code editing system for TR-600 videotape recorders, 734, Oct.  
 —, TK-47 television camera, 656, Sept.  
 —, TK-760 studio field camera, improved, 728, Oct.  
 —, TKP-46 Portable Production Camera, 848, Dec.  
**RCA Consumer Electronics**, ChanneLock tuning system, 738, Oct.  
 —, SelectaVision, expanded line, 852, Dec.  
**RCA Corp.**, dual magnetic reproducer system, PM 85 SL, 198, Mar.  
 —, SelectaVision, VCT400, 666, Sept.  
 —, SelectaVision videocassette recorder, 66, Jan.  
**RCA Photophone Systems**, dual magnetic reproducer, PM 85SL, 366, May  
**Research Technology Inc.**, A-M-M-S (Automated Media Management Systems), 425, June  
 —, Edette film viewer, 482, July  
 —, Omega film care system, 482, July  
 —, Retec film storage system, 486, July  
**Reticon Corp.**, tunable filter on a chip, 734, Oct.  
**Rockwell International**, Electronic Systems Group, ADAP automatic digital audio processor, 485, July  
**RTS Systems**, preamp/limiter, 70, Jan.  
**Sachtler GmbH**, fluid head Standard 7+7, 858, Dec.  
**Sankyo Seiki (America)**, Stereo-800, super-8 sound projector, 484, July  
 —, super-8 camera, ES-88XL, 553, Aug.  
 —, super-8 camera, ES-44XL VAF, 553, Aug.  
 —, super-8 camera, LXL-225, 554, Aug.  
 —, super-8 camera, Sound XL 800S, 867, Dec.  
 —, super-8 camera, XL 61-200, 553, Aug.  
**Schneider Corp. of America**, AnimeX anamorphic projection lens, 667, Sept.  
**Sharp Electronics Corp.**, closed-circuit color camera, XC-300U, 263, Apr.  
 —, projection television system, 802, Nov.  
 —, special effects generator, XEG-3000, 662, Sept.  
 —, sync generator system (XSG-370), 862, Dec.  
 —, three-tube ENG color television camera, 730, Oct.  
**Simon & Associates**, dissolve unit for slides, Entre 7600A, 667, Sept.  
**Sira Institute Ltd.**, television and lens testing set, 860, Dec.  
**Skotel Corp.**, time-code generator, 424, June  
 —, time-code reader, Model TCR-80, 806, Nov.  
**Eric Small & Associates**, Telesis, control of AM, FM and TV transmitters, 369, May  
 —, Telesis, transmitter control system, 425, June  
**Sonar Radio Corp.**, Videoraser, 736, Oct.  
**Spindler & Sauppe, Inc.**, Director 24, audiovisual memory programming system, 667, Sept.  
 —, Spectrum 32 television slide projector, 858, Dec.  
**Super8 Sound, MKM** editing table, new version, 369, May  
**Telecommunications Industries Ltd.**, Porta-Pattern chart carrier, 658, Sept.  
**Telegen Inc.**, Crisp-Matic image enhancer, PAL/SECAM version, 68, Jan.  
 —, YFI comb filter separator, 807, Nov.  
 —, YFI record booster, 862, Dec.  
**TeleMation, Inc.**, status light display, SM-1030, 69, Jan.  
 —, TMM-205 Multiplexer, 264, Apr.  
**Television Equipment Associates**, headset tester, 665, Sept.  
 —, unified noise weighting filter, 424, June  
**TeleVue Optics, Inc.**, television projection lenses, 69, Jan.

The Great American Market, Fresnel lens spotlight, 745, Oct.  
 ——, Greatmark Lights, 744, Oct.  
 ——, patterns for projection in spotlights, 202, Mar.  
 3M Company, digital effects generator, 802, Nov.  
 ——, extended-play U-Matic cassettes, 192, Mar.  
 ——, horizontal enhancement module, 864, Dec.  
 ——, 1-in master broadcast videotape, 552, Aug.  
 ——, studio production switcher, Model 9000, 550, Aug.  
 ——, television character generator, 422, June  
 ——, television image enhancer/decoder, 422, June  
 Tiffen Manufacturing Corp., slide sync audio recorder/player, AV7202, 369, May  
 ——, sync dissolve programmer, SD70, 557, Aug.  
 Treise Engineering Inc., closed loop system, Model 22, 810, Nov.  
 Tritex Telecommunications, Inc., low-pass filters, series 1000, 730, Oct.  
 Tweed Audio, audio mixing console, 555, Aug.  
 Twenty-Fourth Frame, pitch correction system, 124, Feb.  
 Ultra Audio Pixtec, NTSC studio vectorscope, 663, Sept.  
 ——, NTSC sync generator, 860-862, Dec.  
 Ultra Audio Products, audio console, 866, Dec.  
 Unitel, Scriptel P, character generator, 802, Nov.  
 Unity Power Systems Northeast, power systems transient protectors, 126, Feb.  
 Variable Speech Control Co., module for speech compression, pitch correction, 867, Dec.  
 Video Automation Systems, Inc., anti-piracy videocassette program protection system, 552, Aug.  
 Video Components, Inc., Eclipsor signal processor, 264, Apr.  
 Videokalos Studios, color synthesizer, 661, Sept.  
 Videamax, Magemite, tip material, 807, Nov.  
 Videomedia audiovisual kit, 732, Oct.  
 ——, modification package for Panasonic 3/4-in editing controllers, 804, Nov.  
 ——, production audio mixer, model S6/2, 664, Sept.  
 W. Vinten Ltd., OB camera crane, 418, June  
 ——, TriTrack tracking base, 800, Nov.  
 Visual Information Institute, Signal Source 10, set of signals for display setup, 550, Aug.  
 ——, television test instruments, 556, Aug.  
 Visual Instrumentation Corp., Selecta-Frame 5, 16mm analysis projector, 806, Nov.  
 Visual Methods, Inc., pinhole lens, 852, Dec.  
 VIZ Mfg. Co., general purpose VOM, 745, Oct.  
 ——, WD-752A frequency counter, WD-751A digital VOM, price reductions, 738, Oct.  
 Westrex, Nuoptix FR-1 system for recording optical soundtracks on photographic film, 364, May  
 Wide Range Electronics Corp., magnetic film sound recorders, reproducers, series 3600, 664, Sept.  
 Winsted Corp., cabinets for tape and film storage, 369, May  
 ——, video console, 368, May  
 Zei-Mark Corp., broadcast optical multiplexer, Model 750, 734, Oct.

## NEW PRODUCTS AND DEVELOPMENTS

(Arranged by **Subject**; see also listing by **Company** above)

**CAMERAS (including high-speed), attachments and related equipment (see also TELEVISION)**

Animation camera, Neilson-Hordell Ltd., 858, Dec.  
 Arriflex 16SR combined with Nagra SNN, Victor Duncan, Inc., 122, Feb.  
 Battery sequencer, Frezzolini Electronics Inc., 486, July  
 Body Mount, handheld camera stabilization system, Continental Camera Systems, 194, Mar.

Color Hip Switcher II editing device, Adwar Video Corp., 423, June  
 Director's Viewfinder, Alan Gordon Enterprises Inc., 416, June  
 Fast Charger, BC-77, Frezzolini Electronics Inc., 264, Apr.  
 Finder Extender for Arri 16SR cameras, Arri Corp., 416, June  
 Fluid head Standard 7+7, Sachtler GmbH, 858, Dec.  
 Frezzi Belt Battery Pack, F-12-77, Frezzolini Electronics Inc., 554, Aug.  
 Fujica P-2, 8mm camera, Fuji Photo Film, U.S.A., 866, Dec.  
 GSMO 16mm mini-camera, Cinema Products Corp., 263, Apr.  
 Gyro Stabilizer systems, Ken-Lab, Inc., 122, Feb.  
 Helmet camera, P.O.V. 35mm, Continental Camera Systems, 192, Mar.  
 Moviecam 3 camera, Neilson-Hordell Ltd., 796, Nov.  
 Nose Cone Camera Position, Continental Camera Systems, 416, June  
 Pathé Report electronic cameras, Karl Heitz, 68, Jan.  
 Reflex cameras, CP-16R and CP-16R/A, improvements, Cinema Products Corp., 855-858, Dec.  
 Servo zoom drive motor, Arriflex Corp., 742, Oct.  
 Steadicam/Arri 35BL modification package, Cinema Products Corp., 263, Apr.  
 Steadicam, conversion kit, Cinema Products Corp., 263, Apr.  
 Super-8 camera, Bolex 5122, Ehrenreich Photo-Optical Industries, 122, Feb.  
 Super-8 camera, Bolex 625-XL, Ehrenreich Photo-Optical Industries, Inc., 196, Mar.  
 Super-8 camera, ES-88XL, Sankyo Seiki (America), 553, Aug.  
 Super-8 camera, ES-44XL VAF, Sankyo Seiki (America), 553, Aug.  
 Super-8 camera, LXL-225, Sankyo Seiki (America), 554, Aug.  
 Super-8 camera, SoundStar, Bell & Howell • Mamiya Co., 554, Aug.  
 Super-8 camera, Sound XL 800S, Sankyo Seiki (America) Inc., 867, Dec.  
 Super-8 camera, 214XL, Bell & Howell • Mamiya Co., 553, Aug.  
 Super-8 camera, XL 61-200, Sankyo Seiki (America), 553, Aug.  
 Super-8 camera, 2146XL, Bell & Howell • Mamiya Co., 196, Mar.  
 Super-8 cameras, Models 2123XL and 2103XL, Bell & Howell • Mamiya Co., 198, Mar.  
 Sync generator system, Sharp Electronics Corp., 862, Dec.  
 Tripod spreader, Miller Professional Equipment, 658, Sept.  
 Tripod with fluid head, Ehrenreich Photo-Optical Industries, 808, Nov.  
 Video coupling, monitoring system for Arriflex 16SR, Arri Corp. 416, June

**FILM AND TAPE**

Agfachrome super-8 film, Agfa-Gevaert (Braun North America dist.), 192, Mar.  
 Beridox tape for 3/4-in U-Matic videocassettes, Fuji Photo Film U.S.A., 68, Jan.  
 Cabinets for tape and film storage, Winsted Corp., 369, May  
 Microfilm products, Eastman Kodak Co., 126, Feb.  
 MRX-716 1-in videotape, Memorex Corp., 659, Sept.  
 Posi-Trol positive control sprockets, LaVezzi Machine Works, Inc., 742, Oct.  
 Retecc film storage system, Research Technology Inc., 486, July

**GENERAL**

Automated Media Management Systems, Research Technology Inc., 425, June  
 Chart carrier, Telecommunications Industries, Ltd., 658, Sept.  
 Crimp connector kits, Comprehensive Video Supply Corp., 808, Nov.  
 Frezzi Belt Battery Pack, Model F-12-77, Frezzolini Electronics Inc., 742, Oct.

**IDI Data Slate I, Image Devices Inc., 742, Oct.**  
**Plio-Magic plastic reel, super-8, PRC of America, 669, Sept.**  
**Speedcharge Battery Belts, P.A.G. Power Ltd., 742, Oct.**  
**Vibra-Jet, Chemtronics Inc., 266, Apr.**

**LABORATORY PRACTICE (printing, processing, editing, etc.)**

CL-100 Cut/Lap Transition Programmer, Convergence Corp., 660, Sept.  
 Eddette, film viewer, Research Technology, Inc., 482, July  
 Electro-Lite silver recovery system, Derek, Inc., 425, June  
 Electronic counter, KLM Associates, 557, Aug.  
 Film cleaning machine, LC-500, Kinetics Corp., 556, Aug.  
 Film loop cabinets, Peterson Enterprises, 482, July  
 Film processors, Advanced Colormaster, Houston Fearless, 798, Nov.  
 Film processors, compact 2000 series, Photomec Ltd., 798, Nov.  
 Frame count cueing system, Peterson Enterprises, Inc., 481, July  
 Joystick editing control system, ECS-IBVU, Convergence Corp., 418, June  
 MKM/Super8 Sound editing table, new version, Super8 Sound Inc., 369, May  
 Modification package for Panasonic 1/4-in editing controllers, 805, Videomedia, Nov.  
 Neutaper splicer, Neumade Products Corp., 204, Mar.  
 Neuvar II, automatic 16mm film cleaner, Neumade Products Corp., 71, Jan.  
 Oldeft electronic counter, KLM Associates, 804, Nov.  
 Omega film care system, Research Technology, Inc., 482, July  
 Optical Crown system, KLM Associates, 804, Nov.  
 Printer control tape readers, Carter Equipment Co., 425, June  
 Superstick editing control systems, ECS-100 series, Convergence Corp., 482, July  
 Time-code reader system TCR-100, option for ECS-100 Superstick editing systems, Convergence Corp., 804, Nov.  
 Ultima film processors, Allen Products Co., 481, July

**LENSES, OPTICS**

Angenieux zoom lens, Karl Heitz, 70, Jan.  
 Lenses, 16mm, ultra-high-speed, Cinema Products Corp., 548, Aug.  
 Monocular type light meter, Fotomatic Corp., 204, Mar.  
 Navitar zoom lens, D.O. Industries, 865-866, Dec.  
 Projection lens, Jos. Schneider & Co., 667, Sept.  
 Relay lens, Continental Camera Systems, 196, Mar.  
 Tele-Athenar II lenses, Century Precision Cine/Optics, 548, Aug.  
 Zoom lens for slide projectors, D. O. Industries, 808, Nov.  
 Zoom lens, variable prime, Angenieux Corp. of America, 796, Nov.

**LIGHTING**

Duet packaged memory lighting control system, Rank Strand Electric, 867, Dec.  
 Fresnel lens spotlight, The Great American Market, 745, Oct.  
 Greatmark Lights, The Great American Market, 744, Oct.  
 Multipurpose luminaire, Berkey Colortran U.K., 422, June  
 Omni-Light focusing spotlight, Lowell-Light Mfg. Inc., 554, Aug.  
 Patterns for projection in spotlights, The Great American Market, 202, Mar.  
 Reporter Lighting Kit, LTM Corp. of America, 554, Aug.  
 Softlite, 4000-W, Berkey Colortran, Inc., 868, Dec.  
 Status light display, SM-1030, Telemation, Inc., 69, Jan.

## PROJECTORS, PROJECTION EQUIPMENT

Automatic film rewind table, Mark III, Acmade International, 809, Nov.  
C.A.T. complete automated theater, Optical Radiation Corp., 367, May  
Closed loop system, Model 22, Treise Engineering, Inc., 810, Nov.  
Dissolve unit, Entre 7600A, Simon & Associates, 667, Sept.  
Easy-Load 16mm projectors, Kalart Victor Corp., 418, June  
Film leaders, PRC of America, 481, July  
Film sprockets, LaVezzi Machine Works, 867-868, Dec.  
Filmsonic super-8 projectors, Bell & Howell • Mamiya Co., 557, Aug.  
Microprocessor-based audiovisual multi-image memory programming system, Director 24, Spindler & Sappe, Inc., 667, Sept.  
Multiplexer, TMM-205, TeleMation, 264, Apr.  
Navitar slide projection lenses, D. O. Industries, 745, Oct.  
Projector lamp, Multi-Mirror 50-h EJL, General Electric, 669, Sept.  
Projector-projector film cleaner, Christie Electric Corp., 485, July  
Selecta-Frame 5, 16mm analysis projector, Visual Instrumentation Corp., 806, Nov.  
Super-8 projector, Beaulieu 708 EL, Bell & Howell • Mamiya Co., 484, July  
Super-8 projector, Lumina II, Bell & Howell • Mamiya Co., 200, Mar.  
Super-8 projector, Stereo-800, Sankyo Seiki (America), 484, July  
Super-8 sound projectors, Eumig (U.S.A.), 666, Sept.  
Vu-Graph II overhead projector, Charles Beseler Co., 124, Feb.  
Xenographic 500FM xenon slide projection system, Optical Radiation Corp., 667, Sept.

## SOUND

Acoustic analyzer, Model 500, Inovonics, Inc., 266, Apr.  
Add-on tape noise reduction system for Nagra IV-S portable stereo recorders, dbx, Inc., 124, Feb.  
Amplifier for driving headphones, Edcor, 665, Sept.  
Analog tapped audio delay line, Neutrik AD-4, Philips Audio Video Systems Corp., 484, July  
An-Eck-Oic chambers, acoustic studies, Eckel Industries, 484, July  
Audio analysis system, IE-30A, Ivie Electronics, 202, Mar.  
Audio console, Constellation series, CCA Electronics Corp., 664, Sept.  
Audio console, MS-105 Mixmaster, Ultra Audio Products, 866, Dec.  
Audio mixer, Model S6/2, VIF International, 664, Sept.  
Audio mixing console, Tweed Audio, 555, Aug.  
Audio processor, AM, FM, television, MSP-100, Harris Corp., 665, Sept.  
Audio recorder, Model MX-5050-B, Otari Corp., 740, Oct.  
Audio time delay systems, Altec Corp., 367, May  
Audiotracer, Model 3201, Philips Audio Video Systems Corp., 556, Aug.  
Automatic Graphic Equaliser, Type 1500, Audio Developments International, 368, May  
Bogen magnetic heads, MM Editing Systems, Inc., 200, Mar.  
Bolex sound mixing console, Ehrenreich Photo-Optical Industries, 368, May  
Calrec sound field microphone, CM4050, Edcor, 483, July  
Digital audio processor, Rockwell International, Electronic Systems Group, 485, July  
Galaxy stereo-optical sound system package, Eprad, Inc., 804, Nov.  
Headset tester, Television Equipment Associates, 665, Sept.  
Magnetic film sound recorders, reproducers, Wide Range Electronics Corp., 664, Sept.  
Magnetic sound film recorders/reproducers, Mag-async/Moviola Corp., 800, Nov.  
Mini-Rack, 16mm magnetic film audio recorder, P.A.G. Films Ltd., 738, Oct.

Mixer/power amplifier, TCA 150 Tech-Craft, Bogen Division/Lear Siegler, Inc., 485, July  
Modular microphone, System C, Electro-Voice, Inc., 124, Feb.  
Module for speech compression, Model M-8, 867, Dec.  
Monitor loudspeaker, PM450, Chartwell Electro-Acoustics Ltd., 198, Mar.  
Mono/stereo audio console, M90, Harris Corp., 420, June  
Multitrack audio recording consoles, Neve Electronics International Ltd., 740, Oct.  
Nuoptix FR-1 system for recording optical soundtracks on film, Westrex, 364, May  
Pitch correction system, Twenty-Fourth Frame, 124, Feb.  
Porta-Series microphone floor stands, Atlas Sound, 740, Oct.  
Preamp/limiter, RTS 1400, RTS Systems, 70, Jan.  
Remote control card, microprocessor-controlled, Eventide Clockworks, Inc., 555, Aug.  
Shot-gun microphone, Model SGM-2, Comprehensive Video Supply Corp., 557, Aug.  
Shotgun microphones, Hammond Industries Inc., 740, Oct.  
Slide Sync Audio recorder/player, Tiffin Manufacturing Corp., 369, May  
Studio boom, American Trading and Production Corp., 555, Aug.  
Wireless microphone receiver, ST-3B, Edcor, 665, Sept.  
Wireless microphone transmitter/receiver, Encore Pro-1/ system, Edcor, 123, Feb.

## TELEVISION (cameras, projectors, tubes, special applications, videotape and recorders, display systems, cassettes, videodisks, editing, etc.)

Antenna positioning system for ENG, AP-2500, Pelco Industries Inc., 264, Apr.  
Anti-piracy videocassette program protection system, Video Automation Systems Inc., 552, Aug.  
Audio and video switching modules, Series 5900, Dynair Electronics, Inc., 364, May  
Audio video switcher, AVS-100 Convergence Corp., 808, Nov.  
Audiovisual kit, Videomedia, 732, Oct.  
Automatic video equalizer, 2504N, Matthey Printed Products Ltd., 730, Oct.  
Automation accessory for the TCR-100 cartridge recorder, RCA Broadcast Systems, 736, Oct.  
Chroma III, color signal system for slow-motion disc recorders, Eigen, 660, Sept.  
Chyron IV, graphics and titling system, Chyron Corp., 661, Sept.  
Closed-circuit color television camera, XC-300U, Sharp Electronics Corp., 263, Apr.  
Color disc recorder, Eigen Video, 66, Jan.  
Color monitor, Barco Electronic, 662, Sept.  
Color sync generator, Model SY 5990A, companion genlock, Dynair Electronics, Inc., 192, Mar.  
Color television camera, TC-50, Harris Corp., 548, Aug.  
Colour Synthesiser, Videokalos Studios, 661, Sept.  
Compressed video system, Model 260B, Colorado Video, Inc., 552, Aug.  
CPV circularly polarized television antenna, Harris Corp., 734, Oct.  
Crisp-Matic image enhancer, PAL/SECAM version, Telegen, 68, Jan.  
CRT display module, Hewlett-Packard, 483, July  
Digital effects generator, Model 5130, 3M Company, 802, Nov.  
Digital time-base corrector, CVS-516, Consolidated Video Systems, 68, Jan.  
Digital time-base corrector, TBC-2, Ampex Corp., 734, Oct.  
Digital video frame synchronizer, TFS-121, Sharp Electronics Corp., 730, Oct.  
Digital video recording system, Ampex Corp., 424, June  
Dual magnetic reproducer system, PM-85SL, RCA Corp., 198, Mar.  
Eclipsor signal processor, Video Components, Inc., 264, Apr.  
Electrostatic Facsimile Receiver, M-136, Muirhead Inc., 202, Mar.

ENG/EFP camera, MNC-71CP, Cinema Products Corp., 190, Mar.  
Environmental color television camera, Model I420, Cohu, Inc., 848, Dec.  
EPIC editor, Consolidated Video Systems, 732, Oct.  
Flying-spot color telecine, MK III, Rank Precision Industries, 362, May  
Frame Synchronizer, Model VW-1, ADDA Corp., 422, June  
Frequency counter, MAX-100, Continental Specialties Corp., 369, May  
FS-15 FE device to eliminate expanded blanking, NEC America, 855, Dec.  
Helical videotape recorder, VPR-2, Ampex Corp., 732, Oct.  
Horizontal enhancement module, 3M Company, 864, Dec.  
Image Enhancer/Noise Reducer, CVS 310, Consolidated Video Systems, 862, Dec.  
Insert recorder/reproducer, Series 3000, Magna-syn/Moviola Corp., 555, Aug.  
Isocon television camera system, Cohu, Inc., 800, Nov.; 848, Dec.  
JVC Vidstar VHS videocassette system, Media Concepts, Inc., 552, Aug.  
Laser-recording material for videodiscs and digital data storage, Drexler Technology Corp., 864, Dec.  
L-C delay line, Allen Avionics, Inc., 864, Dec.  
L-C filters, Allen Avionics, 552, Aug.  
Low-Pass filters, series 1000, Tritex Communications, Inc., 730, Oct.  
Magamite, long-life tip material, Videamax, 807, Nov.  
Mark IX color television camera system, Marconi Electronics, Inc., 656, Sept.  
Master broadcast videotape, 3M Company, 552, Aug.  
Microwave receiver, earth terminals, Farinon Electric, 483, July  
Monochrome video monitors, Lenco, Inc., 862, Dec.  
Multicore studio/field camera, LDK 25, Philips Broadcast Equipment, 728, Oct.  
OB van, Robert Bosch GmbH, 194, Mar.  
1-in Plumbicon, Ampere Electronic Corp., 548, Aug.  
Optical multiplexer, Model 750, Zei-Mark Corp., 734, Oct.  
Pedestal, Innovative Television Equipment, 658, Sept.  
Phasemaster rotary phase converter, Kay Industries, 426, June  
Portable broadcast camera, BCC-14, Ampex Corp., 798, Nov.  
Production switcher, Duca-Richardson model, Ampex Corp., 862, Dec.  
Program switcher, Model 7400/A, Dynasciences, 68, Jan.  
Projection television kit, Model Q-12, Miami Flock Equipment Co., 484, July  
Projection television system, Sharp Electronics Corp., 802, Nov.  
Reader-character unit, Gray Engineering Laboratories, 732, Oct.  
Remote control system, American Laser Systems, 852-855, Dec.  
Right-angle pinhole lens, Visual Methods, Inc., 852, Dec.  
Routing switchers, 8500 series, Dynasciences, 424, June  
Scriptel P, microprocessor-controlled digital character generator, Unitel, 802, Nov.  
SelectaVision products, RCA Consumer Electronics, 852, Dec.  
SelectaVision videocassette recorder, RCA Corp., 66, Jan.; 666, Sept.  
Signal Corrector, Microtime, Inc., 264, Apr.  
Signal Source 10, Visual Information Institute, 550, Aug.  
Slow-motion machine, SLO/MO-1, Echo Science Corp., 68, Jan.  
Special effects generator, XEG-3000, Sharp Electronics Corp., 662, Sept.  
Spectrum 32 Selectroslide television slide projector, Spindler & Sappe, Inc., 858, Dec.  
Squeezoom, Vital Industries, 422, June  
Studio production switcher, Model 9000, 3M Company, 550, Aug.

Sync Dissolve Programmer, Model SD70, Tiffen Manufacturing Co., 557, Aug.

Sync generator, Ultra Audio Pixtec, 860-862, Dec.

Telecue Monitor Prompting System, Listec Television Equipment Corp., 420, June

Telisis, system for control of television transmitters, Eric Small & Associates, 369, May

Television camera, LDK 15L, Philips Broadcast Equipment Corp., 728, Oct.

Television camera, TK-760, improved, RCA Broadcast Systems, 728, Oct.

Television camera, unattended operation, Model 2810 B, Cohu, Inc., 848, Dec.

Television character generator, Model D-3016, 3M Company, 422, June

Television display system, GMR-27, Grinnell Systems Corp., 66, Jan.

Television image enhancer/decoder, 3M Company, 422, June

Television monitors, Robert Bosch, 190, Mar.

Television projection lenses, TeleVue Optics, 69, Jan.

Television test instruments, Visual Information Institute, 556, Aug.

Television transmission set, American Laser Systems, 662, Sept.

TH-100, Type C helical-scan videotape recorder, RCA Broadcast Systems, 658, Sept.

Three-tube ENG camera, Sharp Electronics Corp., 730, Oct.

Time-code editing system for TR-600 videotape recorders, RCA Broadcast Systems, 734, Oct.

Time-code generator, Model TCG-80N, Skotel Corp., 424, June

Time-code generators, MTG 550, EECO, 660, Sept.

Time-code reader, Model TCR-80, Skotel Corp., 806, Nov.

Titler-Keyer, Model TK-1, Adwar Video Corp., 423, June

TK-47, automatic color television studio and field camera, RCA Broadcast Systems, 656, Sept.

TKP-46 portable production camera, RCA Broadcast Systems, 848, Dec.

Transient Protectors, Unity Power Systems Northeast, Inc., 126, Feb.

Tripod for ENG video camera, Innovative Television Equipment, 744, Oct.

Tunable filter on a chip, Reticon Corp., 734, Oct.

Tuning System, RCA Consumer Electronics, 738, Oct.

U-Matic cassettes, extended play, 3M Company, 192, Mar.

Unified noise weighting filter, Type 410-2, Television Equipment Associates, 424, June

VHF lowband television transmitter, Philips Broadcast Equipment Corp., 736, Oct.

Vidicon, camera, WV-1000A, and Newvicon CCTV camera series, Panasonic, 848-852, Dec.

Video cabling accessories, Comprehensive Video Supply Corp., 865, Dec.

Videocassette cleaner and evaluator, Chyron Teletechsystems, 265, Apr.

Videocassette, QHD, Memorex Corp., 424, June

Videocassette recorders, Omnidvision II, 855, Dec.

Video console, The Winsted Corp., 368, May

Videodisc player system, VISC, Matsushita Electric, 190, Mar.

Videodisc recorders, Oktel Corp., 418, June

Video distribution amplifier, Avitel Electronics Ltd., 864, Dec.

Video distribution amplifier, Teldav 400, Channematic, Inc., 194, Mar.

Video distribution amplifiers, Dynasciences, 423, June

Video editing recorder, electronic, JVC Industries, Inc., 659-660, Sept.

Video enhancer, Model 858, Dynasciences, 802, Nov.

Video Expander, Model 275, Colorado Video, Inc., 660, Sept.

Video frame store, Model 274, 806, Nov.

Video noise meter, Model VNM-428, Lenco, Inc., 800, Nov.

Video processing system, DPS-1, Digital Video Systems, 362, May

Videoraser, Sonar Radio Corp., 736, Oct.

Vidstar VHS video home system, JVC Industries, 192, Mar.

Vinten Kestrel OB camera crane, W. Vinten Ltd., 418, June

Vinten TriTrack tracking base, Listec Television Equipment Corp., 800, Nov.

YFI comb filter separator, Telegen Inc., 807, Nov.

YFI Record Booster, Telegen, 862, Dec.

#### TESTS, MEASUREMENTS AND QUALITY CONTROL

AM/FM signal source, Marconi Instruments, 662, Sept.

Audio frequency response analyzer, Hammond Industries, 666, Sept.

Calculators (Series E), Hewlett-Packard, 668, Sept.

Color bar generator, Lenco, Inc., 860, Dec.

Color television pattern generator, N.V. Philips Gloeilampenfabrieken, 860, Dec.

Computer interface, Model SA1142, Marconi Instruments, 420, June

Counter, 50-500 MHz, Continental Specialties, Corp., 664, Sept.

Counter-timer, Hewlett-Packard, 865, Dec.

Delta Time Oscilloscope, Model 1742A, Hewlett-Packard, 808, Nov.

Design Mate-2, 3-waveform function generator, Continental Specialties Corp., 738, Oct.

Digital logic probe, Continental Specialties Corp., Model LP-1, 864-865, Dec.

Digital multimeter, Model 3466 A, Hewlett-Packard, 123, Feb.

Distortion Measurement Set, Model 339A, Hewlett-Packard, 200, Mar.

Dual digital tape timer, TT-100, Convergence Corp., 807, Nov.

Frame count cueing system, Carter Equipment Co., 809, Nov.

Frequency counter, MAX-100, Continental Specialties Corp., 738, Oct.

Frequency counter, other instruments, price reductions, VIZ Test Instruments Group, 738, Oct.

General purpose VOM, VIZ Test Instruments Group, 745, Oct.

Logic Monitor, Model LM-1, Continental Specialties Corp., 669, Sept.

Matrix, Opamp Labs, Inc., 740, Oct.

Microwave frequency counter, Model 5342A, Hewlett-Packard, 265, Apr.

Microwave frequency counter, option H10 providing -15 dBm sensitivity, Hewlett-Packard, 664, Sept.

Microwave signal generators, Flann Microwave Instruments, Ltd., 68, Jan.

Multimeters, Eico Electronic Instrument Co., 668, Sept.

NTSC studio vectorscope, Ultra Audio Pixtec, 663, Sept.

Oscilloscope, LBO-507, Leader Instruments Corp., 265, Apr.

Photo-Sonics automatic film reader, Model 80, Instrumentation Marketing Corp., 122, Feb.

Scientific calculators, Casio, 426, June

Spectra Photometer/Radiometer, Photo Research Div. of Kollmorgen Corp., 809, Nov.

Spectrum analyzer, Marconi Instruments Ltd., 666, Sept.

Spectrum analyzer, Model 3582A, Hewlett-Packard, 736, Oct.

Stopwatch, super-8/16mm, Birns & Sawyer, Inc., 669, Sept.

Television and lens testing system, Sira Institute, 860, Dec.

Television transmitter, Nippon Electric Co., 663, Sept.

Video cable equalizer, Cohu, Inc., 664, Sept.

Wideband RF sweeper plug-ins, Hewlett-Packard, 265, Apr.

#### OBITUARIES

Aex, Paul S., 404, June

Crisp, Ernie, 96, Feb.

Dunning, Carroll H., 58, Jan.

Eitzold, Hellmuth, 404, June

Goldmark, Peter Carl, 95-96, Feb.

Hardy, Arthur C., 96, Feb. (See Addendum, 404, June)

Holmes, Frank A., 404, June

Kozanowski, Henry N., 714, Oct.

McGeary, Frank, 471, July

Sponable, Earl I., 95, Feb.

Sullivan, John R., 352, May

Weinberger, Isaak, 348, May

Yavitz, Eric A., 58, Jan.

#### OPTICAL FIBER TECHNOLOGY

Optical-fiber video transmission using analog baseband modulation, *Tenne-Sens and Johnson*, 386-390, June

Video transmission tests, intermediate frequency lightwave entrance links, *Albanese and Lenzing*, 821-824, Dec.

#### OPTICS

Lens designs for motion-picture cameras, *Glatzel*, 1-5, Jan.

#### OTHER ORGANIZATIONS

Audiovisual programs, UN conference on human settlements, *Cobley and Graham*, 218-221, Apr.

BKSTS Fellow Awards, 472, July

EBU definition of field one in the eight-field sequence of the PAL signal, 771, Nov.

Photokina 1978, *Happé*, 834-837, Dec.

Telecine, colorimetric characteristics within EBU organizations, *Rothaler*, 574-578, Sept.

The Aeroballistic Range Association, *Endelman*, 406, June

#### OUTSIDE BROADCASTING VEHICLES

Location production unit using lightweight cameras, *Leiper, Vitty and Woolford*, 494-498, Aug.

Vehicle, radio and television broadcasting quality assurance, *Bennett, Kaiser and Quinn*, 582-586, Sept.

#### PRODUCTION (See also TELEVISION)

Location production unit using lightweight cameras, *Leiper, Vitty and Woolford*, 494-498, Aug.

#### PROGRESS COMMITTEE REPORTS

Progress Committee Report for 1977, *Smith*, 269-325, May, (See Erratum, 486, July)

#### PROJECTORS AND PROJECTION (See also TELEVISION)

ISO 26 1977 (E), Projector Usage of 16mm Motion-Picture Films for Direct Front Projection — Specifications, 236, 246, Apr.

ISO 359-1977 (E), Projectable Image Area on 16mm Motion-Picture Prints, 36, 48, Jan.

Synchronization control unit for super-8 sound recording, editing and sound transfer to magnetic-striped film, *Sudmann and Aaslid*, 158-162, Mar.

#### SCREEN LUMINANCE

ANSI PH22.196-1978, Screen Luminance and Viewing Conditions for Indoor Theater Projection of Motion-Picture Prints, 516, 518-519, Aug.

#### SOCIETY ACTIVITIES

**Committees and Study Groups** (see also Engineering Activities below)

Progress Committee Report for 1977, *Chairman, Robert M. Smith*, 269-325, May

Subcommittee SC 60B of IEC TC 60, meeting, report, *Anderson, Ritter and Remley*, 594-595, Sept.

Subcommittee SC 60C of IEC TC 60, meeting, report, *Farmer and Wyman*, 595-596, Sept.

Videodisc recording systems, study group, organizational meeting, report, *Paulson*, 35, Jan.

#### Conferences and Seminars

120th Technical Conference, announcements, 88, Feb.; 169, Mar.; 236, Apr.; 330, May; 400, June; 458, July; 515, Aug.; Advance Program, 603, Sept.; Update, 700, Oct.

SMPTE Television Conference, Atlanta, 3-4 February 1978, report, *Bondy*, 326-330, May  
13th Television Conference, announcement, 598, Sept.  
12th Television Conference, announcement, advance program, 49, 52, Jan.

#### Education

Scholarship awards, 644, Sept.  
SMPTE/SPSE Student Chapter, Rochester Institute of Technology, 644, Sept.  
SMPTE Student Chapter activities, 174, Mar.

#### Engineering Activities

Ad Hoc Group under SMPTE Standards Committee to study lighting-equipment accessories, 771, Nov.  
Digital video standards, progress report, *Hopkins*, 391-392, June  
New technology, committee report, *Remley*, 331, May (See Erratum, 516, Aug.)  
Preliminary exchange of experimental interchange tapes for types B and C helical videotape recorders, 236, Apr.  
SMPTE Type C helical-scan recording format, *Fibush*, 755-760, Nov.  
SMPTE working groups formed, 236, Apr.  
Television video technology, committee report, *Chismark*, 331, May  
Vertical interval time code working group solicits information, 516, Aug.  
Videodisc recording systems, study group organizational meeting, *Paulson*, 35, Jan.  
Video recording and reproduction technology, committee report, *Thomas*, 331-332, May

#### Financial Reports

1977 Financial reports, 710-711, Oct.

#### General

SMPTE Executive Director Denis A. Courtney to retire in mid-1979, 716, Oct.

#### International Congresses

13th International Congress on High-Speed Photography and Photonics, 250, Apr.

#### Membership

Contributors to Voluntary Capital Funds Program, 97, Feb.; 466, July; 782, Nov.  
New Members, 630-642, Sept.  
New Sustaining Members, 188, Mar.

#### Publications

*Digital Video*, 208, Mar.  
1978 SMPTE Directory for Members  
*One-Inch Helical Video Recording*, announced, 36, Jan.; published April 1978  
*SMPTE Journal Five-Year Index 1971-1975 Available*, 782, Nov.

#### Representatives to Other Organizations

Subcommittee SC 60B of IEC TC 60, meeting, report, *Anderson, Ritter and Remley*, 594-595, Sept.  
Subcommittee SC 60C of IEC TC 60, meeting, report, *Farmer and Wyman*, 595-596, Sept.

#### Section Activities

Australia, 108, Feb.; 178, Mar.; 531, Aug.; 785, Nov.  
Chicago, 108, Feb.; 254, Apr.; 356, May; 403, June; 531, Aug.; 626, Sept.  
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Montreal/Ottawa/Quebec, 60, Jan.; 110, 112, Feb.; 470, July; 532, Aug.; 714, Oct.; 844, Dec.  
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San Francisco, 360, May; 403, June; 471, July; 532, Aug.; 626, Sept.; 714, Oct.; 785, Nov.  
SMPTE Chicago Section, third tutorial seminar report, *Friend*, 592-593, Sept.  
Toronto, 114, Feb.; 360, May; 404, June; 471, July; 532, Aug.; 844, Dec.  
Washington, 60, Jan.; 114, Feb.; 182, Mar.; 844, Dec.

#### SOUND RECORDING

ANSI, PH22.182-1978, Dimensions for Photographic Sound Record on 8mm Type S (Super 8) Motion-Picture Prints, 771, 779, Nov.  
ANSI, Draft, C98.17, Frequency Response and Operating Level of Recorders and Reproducers for Audio Records for 1-in Type B Helical-Scan Videotape Recording, 88, 91, Feb.  
Colortek optical stereophonic sound film system, *Moseley, Johnson and Blackmer*, 222-232, Apr.  
Computer simulation of photographic sound recording, *Charles and Mitasik*, 429-435, July  
Photographic soundtracks, two-language, *Uhlig*, 561-564, Sept.  
SMPTE Recommended Practice, Proposed, RP 90, Specification for Magnetic-Type Audio Level and Multifrequency Test Film for 16mm Sound Reproducers, 838-839, Dec.

#### SOUND REPRODUCTION

ANSI, Draft, C98.17, Frequency Response and Operating Level of Recorders and Reproducers for Audio Records for 1-in Type B Helical-Scan Videotape Recording, 88, 91, Feb.  
ANSI, PH22.40-1978, Position, Dimensions and Reproducing Speed of Photographic Sound Records on 35mm Motion-Picture Release Prints, 516, 517, Aug.  
Colortek optical stereophonic sound film system, *Moseley, Johnson and Blackmer*, 222-232, Apr.  
ISO 2969-1977 (E), Electro-Acoustic Response of Motion-Picture Control Rooms and Indoor Theatres — Specifications and Measurements, 393, 396-399, June  
Photographic soundtracks, two-language, *Uhlig*, 561-564, Sept.  
SMPTE Recommended Practice, RP 76-1977, Specifications for Flutter Test Film for 16mm Sound Reproducers, Magnetic Type, 459, 460, July

SMPTE Recommended Practice, RP 77-1978, Specifications for Azimuth Test Film for 35mm Three-Track Sound Reproducers, Magnetic Type, 516, 519-520, Aug.  
SMPTE Recommended Practice, RP 78-1978, Specifications for Azimuth Test Film for 16 mm Sound Reproducers, Magnetic Type, 516, 520, Aug.  
SMPTE Recommended Practice, RP 79-1977, Specifications for Flutter Test Film for 35mm 4-Track Release Print Sound Reproducers, Magnetic Type, 393, 394, June  
SMPTE Recommended Practice, RP 80-1977, Specifications for Azimuth Test Film for 35mm 4-Track Release Print Sound Reproducers, Magnetic Type, 393-394, June

#### SPECIAL EFFECTS

Digital special effects: CBS Action Track system, *Moore, Kaiser and Mahler*, 673-676, Oct.  
Digital video effects (DVE) system, *Patten*, 214-218, Apr.

Digital video special effects equipment (Squeezoom), *McCoy*, 20-23, Jan.  
Television framestore, production tool, *Gurley*, 447-451, July

#### SPROCKETS

ISO 3820-1978 (E), Sprockets for 8mm Type S Motion-Picture Film — Dimensions and Design, 459, 462-465, July  
SMPTE Recommended Practice, RP 73-1977, 8mm Type R (regular 8) Sprocket Design, 36, 41-44, Jan.  
SMPTE Recommended Practice, RP 74-1977, 16mm Sprocket Design, 36, 44-47, Jan.

#### STANDARDIZATION

Ad Hoc Group under SMPTE Standards Committee to study lighting-equipment accessories, 771, Nov.  
Digital video standards, progress report, *Hopkins*, 391-392, June  
SMPTE Type C helical-scan recording format, *Fibush*, 755-760, Nov.

#### STUDIOS

Acoustic design of studios, use of scale models, *Meares*, 684-687, Oct.  
CBS new-technology station, *WBBM-TV, Horowitz*, 141-146, Mar.

#### TAPE-TO-FILM TRANSFER

Film recording in the Image Transform system, *Comandini and Roth*, 82-84, Feb.

#### TELEVISION

##### Cameras and Pickup Tubes

Return-beam Saticon, 2-in, high-resolution camera tube, *Isozaki*, 489-493, Aug.  
Saticon color television camera tube, *Neuhauer*, 147-152, Mar.

##### Charge-Coupled Devices

Color film telecine, continuous motion, CCD line sensors, *Poetsch*, 815-820, Dec.  
Telecine using line-array CCD sensor, experimental, *Childs and Sanders*, 209-213, Apr.

##### Color Signals

Digital processing amplifier and color encoder, *Eto, Matsui, Ishibashi and Terui*, 15-19, Jan.  
EBU definition of field one in the eight-field sequence of the PAL signal, 771, Nov.  
PAL color picture improvement using simple analog comb filters, *Auty, Read and Roe*, 677-681, Oct.  
Preserving color television programs on black-and-white film by electronic video recording, *Mackava, Iino, Shigesawa and Tsutada*, 9-15, Jan.

##### Comb Filters

PAL color picture improvement using simple analog comb filters, *Auty, Read and Roe*, 677-681, Oct.

##### Digital Television

Digital data, use of to generate video backgrounds, *Leonard*, 499-504, Aug.  
Digital processing amplifier and color encoder, *Eto, Matsui, Ishibashi and Terui*, 15-19, Jan.  
Digital special effects: CBS Action Track system, *Moore, Kaiser and Mahler*, 673-676, Oct.  
Digital television signals, quality assessment of, *Golding*, 153-157, Mar.  
Digital video standards, progress report, *Hopkins*, 391-392, June  
Television framestore, production tool, *Gurley*, 447-451, July

## Film for Television

Color corrector for telecine, automatic, *Marsden*, 73-76, Feb.  
Film in film-plus-telecine system: telecine design, considerations, *Staes*, 565-573, Sept.  
Telecine, colorimetric characteristics within EBU organizations, *Rothschild*, 574-578, Sept.  
Telecines, color bars on film for setting up, *Hunt*, 78-81, Feb.

## General

New technology committee, report, *Remley*, 331, May  
SMPTE Television Conference, Atlanta, 3-4 February 1978, report, *Bondy*, 326-330, May  
Television video technology committee, report, *Chismark*, 331, May

## Measurements and Tests

SMPTE Engineering Committee Recommendation, ECR 1-1978, Alignment Color Bar Test Signal for Television Picture Monitors, 700, 701-702, Oct.  
SMPTE Engineering Committee Recommendation, Proposed, ECR 1, Alignment Color Bar Test Signal for Television Picture Monitors, 88, 93-94, Feb.

## Post Production

SMPTE time and control code applied to television audio post production, *Swetland*, 508-512, Aug.  
Television post production, small end of the funnel, *Schneider*, 512-515, Aug.  
Videotape program production, CBS studio center, *Connolly*, 761-763, Nov.

## Quality Control

Digital television signals, quality assessment of, *Golding*, 153-157, Mar.  
Flesh tone reference, BBC test card No. 61, colorimetric and other optical considerations, *Taylor and Lent*, 76-78, Feb.  
Magnetic video recording, measurement and evaluation of moiré, *Goncharov and Mootchiev*, 456-458, July  
PAL color picture improvement using simple analog comb filters, *Auty, Read and Roe*, 677-681, Oct.  
SMPTE Engineering Committee Recommendation, Proposed, ECR 1, Alignment Color Bar Test Signal for Television Picture Monitors, 88, 93-94, Feb.  
SMPTE Engineering Committee Recommendation, ECR 1-1978, Alignment Color Bar Test Signal for Television Picture Monitors, 700, 701-702, Oct.  
SMPTE Recommended Practice, RP 27.1-1977, Specifications for Operational Alignment Test Pattern for Television, 332, 333-334, May  
SMPTE Recommended Practice, RP 27.5-1977, Specifications for Mid-Frequency Response Test Pattern for Television, 332, 335-336, May  
Telecines, color bars on film for setting up, *Hunt*, 78-81, Feb.  
Vehicle, radio and television broadcasting, quality assurance, *Bennett, Kaiser and Quinn*, 582-586, Sept.

## Satellite Technology

Public television satellite interconnection system, planning, implementation, *Ball*, 825-831, Dec.  
Video transmission tests, intermediate frequency lightwave entrance links, *Albanese and Lenzing*, 821-824, Dec.

## Switching Systems

Digital video effects (DVE) system, *Patten*, 214-218, Apr.  
Switchers, automatic, universal software, *Barlow and Porteous*, 682-683, Oct.  
Videomelter, *Kubota and Uehara*, 753-754, Nov.

## Telecine

Color film telecine, continuous motion, CCD line sensors, *Poetsch*, 815-820, Dec.  
Film in film-plus-telecine system: telecine design, considerations, *Staes*, 565-573, Sept.  
Telecine, color corrector for, automatic, *Marsden*, 73-76, Feb.  
Telecine, colorimetric characteristics within EBU organizations, *Rothschild*, 574-578, Sept.  
Telecine using line-array CCD sensor, experimental, *Childs and Sanders*, 209-213, Apr.

## Transmission

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Television transmission systems, automatic, *Zborowski*, 383-385, June  
Video transmission tests, intermediate frequency lightwave entrance links, *Albanese and Lenzing*, 821-824, Dec.

## TERMINOLOGY

ANSI PH22.56-1978, Nomenclature for Motion-Picture Film Used in Studios and Processing Laboratories, 771, 772-778, Nov.

## TESTS AND MEASUREMENTS

Color reproduction, testing by means of a programmable color bar generator, *Lang and Illetschko*, 579-582, Sept.  
Vehicle, radio and television broadcasting, quality assurance, *Bennett, Kaiser and Quinn*, 582-586, Sept.

## THERMOPLASTIC FILM

Embossed relief images, application for color motion pictures, *Gale and Knop*, 6-8, Jan.

## VIDEODISC RECORDING

Video disc recording systems, report, study group, organizational meeting, *Paulson*, 35, Jan.

## VIDEOTAPE

### Editing

Edit room using 1-in continuous field helical VTRs, *Nicholls*, 764-766, Nov.  
SMPTE Recommended Practice, Proposed, RP 36, Positioning of the Headwheel and Adjacent Tape for 2-in Quadruplex Video Magnetic Tape Recorders, 393, 395, June  
SMPTE Recommended Practice, Proposed, RP 89, Dual-Program Audio for 2-in Quadruplex Video Magnetic Tape Recording at 15 and 7.5 in/s, 393, 396, June  
SMPTE time and control code applied to television audio post production, *Swetland*, 508-512, Aug.  
Television post production, small end of the funnel, *Schneider*, 512-515, Aug.  
Videotape editing systems using microprocessors, *Hamalainen*, 379-382, June  
Videotape program production, CBS studio center, *Connolly*, 761-763, Nov.

### Recording

ANSI C98.8-1977, Specifications for an Audio Operating Level and Multifrequency Test Tape for Quadruplex Video Magnetic Tape Recorders Operating at 15 in/s (381 mm/s), 36, 37, Jan.  
ANSI C98.11-1977, Specifications for an Audio Operating Level and Multifrequency Test Tape for Quadruplex Video Magnetic Tape Recorders Operating at 7.5 in/s (190.5 mm/s), 36, 39, Jan.  
ANSI Draft, C98.15, Basic System Parameters for 1-in Type B Helical Scan Videotape Recording, 88, 89, Feb.  
ANSI Draft, C98.16, Dimensions and Location of Records for 1-in Type B Helical Scan Videotape Recording, 88, 90-91, Feb.

ANSI Draft, C98.18, Basic System and Transport Geometry Parameters for 1-in Type C Helical Scan Videotape Recording, 162, 163-164, Mar.  
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## Society of Motion Picture and Television Engineers

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<b>Lenses</b>					
Aperture Calibration .....	<b>PH22.90-1964 R1977</b>	June 1964			
Focal Lengths, Markings, 35 & 70mm .....	<b>PH22.28-1976</b>	Feb. 1977			
Focus Scales, 16mm and 8mm Cameras .....	<b>PH22.74-1965 R1975</b>	May 1965			
<b>Leaders</b>					
Preprint, 8mm .....	<b>RP 49-1973</b>	Mar. 1973			
Universal .....	<b>PH22.55-1975</b>	Mar. 1976			
<b>Lenses</b>					
Aperture Calibration .....	<b>PH22.90-1964 R1977</b>	June 1964			
Focal Lengths, Markings, 35 & 70mm .....	<b>PH22.28-1976</b>	Feb. 1977			
Focus Scales, 16mm and 8mm Cameras .....	<b>PH22.74-1965 R1975</b>	May 1965			
<b>Leaders</b>					
Preprint, 8mm .....	<b>RP 49-1973</b>	Mar. 1973			
Universal .....	<b>PH22.55-1975</b>	Mar. 1976			
<b>Lenses</b>					
Aperture Calibration .....	<b>PH22.90-1964 R1977</b>	June 1964			
Focal Lengths, Markings, 35 & 70mm .....	<b>PH22.28-1976</b>	Feb. 1977			
Focus Scales, 16mm and 8mm Cameras .....	<b>PH22.74-1965 R1975</b>	May 1965			
<b>Leaders</b>					
Preprint, 8mm .....	<b>RP 49-1973</b>	Mar. 1973			
Universal .....	<b>PH22.55-1975</b>	Mar. 1976			
<b>Lenses</b>					
Aperture Calibration .....	<b>PH22.90-1964 R1977</b>	June 1964			
Focal Lengths, Markings, 35 & 70mm .....	<b>PH22.28-1976</b>	Feb. 1977			
Focus Scales, 16mm and 8mm Cameras .....	<b>PH22.74-1965 R1975</b>	May 1965			
<b>Leaders</b>					
Preprint, 8mm .....	<b>RP 49-1973</b>	Mar. 1973			
Universal .....	<b>PH22.55-1975</b>	Mar. 1976			
<b>Lenses</b>					
Aperture Calibration .....	<b>PH22.90-1964 R1977</b>	June 1964			
Focal Lengths, Markings, 35 & 70mm .....	<b>PH22.28-1976</b>	Feb. 1977			
Focus Scales, 16mm and 8mm Cameras .....	<b>PH22.74-1965 R1975</b>	May 1965			
<b>Leaders</b>					
Preprint, 8mm .....	<b>RP 49-1973</b>	Mar. 1973			
Universal .....	<b>PH22.55-1975</b>	Mar. 1976			
<b>Lenses</b>					
Aperture Calibration .....	<b>PH22.90-1964 R1977</b>	June 1964			
Focal Lengths, Markings, 35 & 70mm .....	<b>PH22.28-1976</b>	Feb. 1977			
Focus Scales, 16mm and 8mm Cameras .....	<b>PH22.74-1965 R1975</b> </				

## **STANDARDS OF PARTICULAR INTEREST TO THE MOTION-PICTURE AND TELEVISION DISCIPLINES**

- ASTM E380-76/IEEE Std 268-1976, Metric Practice  
IEEE Std 100-1977, Dictionary of Electrical and Electronics Terms  
IEEE Std 193-1971, Weighted Peak Flutter of Sound Recording and Reproducing Equipment  
IEEE Std 202-1954 (R1976), Television: Methods of Measurement of Aspect Ratio and Geometric Distortion  
IEEE Std 205-1958 (R1976), Television: Measurement of Luminance Signal Levels  
IEEE Std 347-1972, Method of Measuring Recorded Flux of Magnetic Sound Records at Medium Wavelengths  
IES RP16-1967. Nomenclature and Definitions for Illuminating Engineering  
53 IRE 3.S2/IEEE Std 152-1953, Volume Measurements of Electrical Speech and Program Waves  
C78.370-1975, Method for the Designation of Photo Lamps  
PH1.25-1976, Specifications for Safety Photographic Film  
PH1.29-1971 (R1977), Methods for Determining Curl of Photographic Film  
PH1.31-1973, Method for Determining the Brittleness of Photographic Film  
PH1.41-1976, Specifications for Photographic Film for Archival Records, Silver-Gelatin Type, on Polyester Base  
PH1.43-1975, Practice for Storage of Processed Safety Photographic Film  
PH2.1-1952 (R1976), Spectral Diffuse Densities of Three-Component Subtractive Color Films  
PH2.3-1972, Method for Determining the Actinity or the Relative Photographic Effectiveness of Illuminants  
PH2.5-1972 (R1978), Method for Determining Speed of Photographic Negative Materials (Monochrome, Continuous-Tone)  
PH2.19-1975, Conditions for Diffuse and Doubly-Diffuse Transmission Measurements (Transmission Density)  
PH2.22-1971, Methods of Determining Safety Times of Photographic Darkroom Illumination  
PH2.25-1965 (R1976), Photographic Printing Density (Carbon Step Tablet Method)  
PH2.29-1967 (R1976), Simulated Daylight Source for Photographic Sensitometry  
PH2.33-1969 (R1976), Method for Determining the Resolving Power of Photographic Materials  
PH2.35-1969 (R1976), Simulated Incandescent Tungsten Sources for Photographic Sensitometry  
PH3.6-1952 (R1975), Tripod Connections for American Cameras,  $\frac{1}{4}$ -inch-20 Thread  
PH3.7-1952 (R1975), Tripod Connections for Heavy-Duty or European Cameras,  $\frac{3}{8}$ -inch-16 Thread with Adapter for  $\frac{1}{4}$ -inch-20 Tripod Screws  
PH3.13-1970 (R1975), Focal Length Marking of Lenses  
PH3.17-1972 (R1978), Specifications for Photographic Optical Filter Sizes  
PH3.20-1975, Distance Scales for Focusing Camera Lenses  
PH3.22-1958 (R1971), Distribution of Illuminance Over the Field of a Photographic Objective or Projection Lens  
PH3.25-1971, Nomenclature for Parts of a Photographic Objective Lens  
PH3.29-1971, Methods of Designating and Measuring Apertures and Related Quantities Pertaining to Photographic Lenses  
PH3.33-1973, Designation of the Apertures of Photographic Lenses  
PH3.35-1977, Methods of Designating and Measuring Focal Lengths and Focal Distances of Photographic Lenses  
PH3.37-1977, Method for the Determination of Color Contribution of Photographic Lenses  
PH3.44-1970 (R1975), Values for Color Contribution of Photographic Lenses  
PH3.49-1971, General-Purpose Photographic Exposure Meters (Photoelectric Type)  
PH3.50-1972, Dimensions for Resolution Test Target for Photographic Optics  
PH3.63-1974, Method for Determining the Photographic Resolving Power of Photographic Lenses  
PH5.6-1968 (R1974), Dimensions for 100-Foot Reels for Processed 16mm and 35mm Microfilm  
PH7.1-1971, (R1976), Specifications for 35mm Single-Frame Filmstrips

## **STANDARDS OF GENERAL INTEREST**

- PH1.10-1976, Dimensions for Unperforated and Perforated Photographic Film in Rolls, Including Leaders and Trailers, for Aerial and Related Uses  
PH1.14-1976, Dimensions for 135-Size Film Magazines and Film for 135-Size Still-Picture Cameras  
PH1.28-1976, Specifications for Photographic Film for Archival Records, Silver-Gelatin Type, on Cellulose Ester Base  
PH1.32-1973, Method for Determining the Dimensional Change Characteristics of Photographic Films and Papers  
PH1.33-1972, Dimensions for 16mm 100-Foot, 16mm 200-Foot, 35mm 100-Foot and 70mm 100-Foot Spools for Recording Instruments and for Microfilm and Still-Picture Cameras  
PH1.37-1977, Methods for Determining the Scratch Resistance of Processed Photographic Film  
PH1.42-1969 (R1975), Method for Comparing Color Stabilities of Photographs  
PH2.4-1965 (R1971), Method for Determining Exposure Guide Numbers for Photographic Lamps  
PH2.7-1973, Photographic Exposure Guide  
PH2.15-1964 (R1976), Automatic Exposure Control for Cameras  
PH2.17-1977, Annular  $45^\circ : 0^\circ$  (or  $0^\circ : 45^\circ$ ) Optical Reflection Measurements (Reflection Density)  
PH2.21-1972, Sensitometric Exposure and Evaluation Method for Determining Speed of Color Reversal Films for Still Photography  
PH2.27-1965 (R1971), Method for Determining the Speed of Color Negative Films for Still Photography  
PH2.31-1969 (R1976), Direct Viewing of Photographic Color Transparencies

